



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Prepared For: **Koron Investments Inc.**

P.O. Box 981
Hays, KS 67601

ATTN: Mark Downing

Baughner A #4-29

23-12s-21w-Trego,KS

Start Date: 2014.12.16 @ 23:12:00

End Date: 2014.12.17 @ 07:02:30

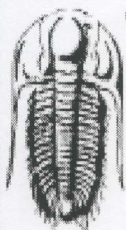
Job Ticket #: 60422 DST #: 2

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2014.12.19 @ 10:35:04



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Koron Investments Inc.

23-12s-21w-Trego, KS

P.O. Box 981
Hays, KS 67601

Baughner A #4-29

Job Ticket: 60422 DST#: 2

ATTN: Mark Downing

Test Start: 2014.12.16 @ 23:12:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:29:30
Time Test Ended: 07:02:30

Test Type: Conventional Bottom Hole (Initial)
Tester: Shane Konzem
Unit No: 56

Interval: **3929.00 ft (KB) To 4029.00 ft (KB) (TVD)**
Total Depth: 4092.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2313.00 ft (KB)
2307.00 ft (CF)
KB to GR/CF: 6.00 ft

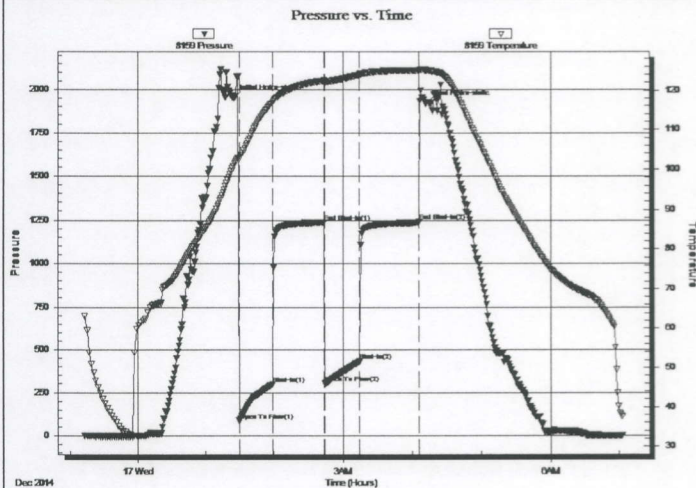
Serial #: 8159

Inside

Press@RunDepth: 432.05 psig @ 4024.08 ft (KB)
Start Date: 2014.12.16 End Date: 2014.12.17
Start Time: 23:13:00 End Time: 07:02:30

Capacity: 8000.00 psig
Last Calib.: 2014.12.17
Time On Btm: 2014.12.17 @ 01:24:30
Time Off Btm: 2014.12.17 @ 04:11:30

TEST COMMENT: IFP 30 Minutes. BOB in 6 minutes and 30 seconds.
ISI 45 Minutes. No blow back.
FFP 30 Minutes. BOB in 9 minutes.
FSI 45 Minutes. No blow back.



PRESSURE SUMMARY

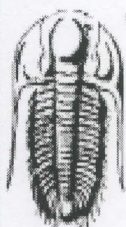
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1953.51	100.71	Initial Hydro-static
5	85.28	102.69	Open To Flow (1)
34	297.86	116.80	Shut-In(1)
79	1237.14	122.43	End Shut-In(1)
80	304.64	122.01	Open To Flow (2)
110	432.05	123.86	Shut-In(2)
162	1240.63	125.03	End Shut-In(2)
167	1918.79	125.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	MW 40% mud, 60% w ater	0.31
126.00	MW 30% mud, 70% w ater	0.62
63.00	OCMW 5% oil, 30% mud, 65% w ater	0.31
189.00	SOCWM 2.5% oil, 27.5% w ater, 70% Mud	2.12
126.00	SOCWM 5% oil, 45% w ater, 50% mud	1.77
189.00	OCMW 10% oil, 45% w ater, 45% mud	2.65

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



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23-12s-21w-Trego, KS

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Baughner A #4-29

Job Ticket: 60422 DST#: 2

ATTN: Mark Downing

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Time Test Ended: 07:02:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Shane Konzem

Unit No: 56

Interval: **3929.00 ft (KB) To 4029.00 ft (KB) (TVD)**

Total Depth: 4092.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2313.00 ft (KB)

2307.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 8524 **Outside**

Press@RunDepth: 1241.85 psig @ 4025.08 ft (KB)

Start Date: 2014.12.16

End Date: 2014.12.17

Start Time: 23:12:01

End Time: 07:01:22

Capacity: 8000.00 psig

Last Calib.: 2014.12.17

Time On Btm: 2014.12.17 @ 01:23:21

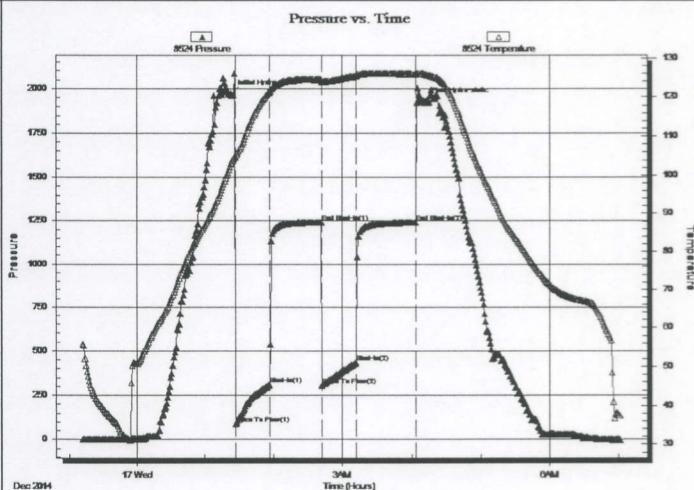
Time Off Btm: 2014.12.17 @ 04:11:29

TEST COMMENT: IFP 30 Minutes. BOB in 6 minutes and 30 seconds.

ISI 45 Minutes. No blow back.

FFP 30 Minutes. BOB in 9 minutes.

FSI 45 Minutes. No blow back.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1970.25	103.10	Initial Hydro-static
4	87.88	104.62	Open To Flow (1)
34	311.87	121.39	Shut-In(1)
80	1242.47	124.40	End Shut-In(1)
80	306.98	123.80	Open To Flow (2)
110	435.94	125.38	Shut-In(2)
161	1241.85	125.84	End Shut-In(2)
169	1927.39	125.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
63.00	MW 40% mud, 60% water	0.31
126.00	MW 30% mud, 70% water	0.62
63.00	OCMW 5% oil, 30% mud, 65% water	0.31
189.00	SOCWM 2.5% oil, 27.5% water, 70% Mud	2.12
126.00	SOCWM 5% oil, 45% water, 50% mud	1.77
189.00	OCMW 10% oil, 45% water, 45% mud	2.65

Gas Rates

	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Koron Investments Inc.

23-12s-21w-Trego,KS

P.O. Box 981
Hays, KS 67601

Baughner A #4-29

Job Ticket: 60422

DST#: 2

ATTN: Mark Downing

Test Start: 2014.12.16 @ 23:12:00

Tool Information

Drill Pipe:	Length: 3629.00 ft	Diameter: 3.80 inches	Volume: 50.91 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 310.11 ft	Diameter: 2.25 inches	Volume: 1.53 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 72000.00 lb
			Total Volume: 52.44 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.11 ft			String Weight: Initial 60000.00 lb
Depth to Top Packer:	3929.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	163.59 ft			
Tool Length:	183.59 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3914.00	
Hydraulic tool	5.00			3919.00	
Top Packer	5.00			3924.00	
Packer	5.00			3929.00	20.00 Bottom Of Top Packer
Anchor	5.00			3934.00	
Change Over Sub	0.75			3934.75	
Drill Pipe	62.58			3997.33	
Change Over Sub	0.75			3998.08	
Perforations	25.00			4023.08	
Recorder	1.00	8159	Inside	4024.08	
Recorder	1.00	8524	Outside	4025.08	
Blank Off Sub	0.75			4025.83	163.59 Tool Interval
Packer	5.00			4030.83	
Change Over Sub	0.75			4031.58	
Drill Pipe	31.26			4062.84	
Change Over Sub	0.75			4063.59	
Perforations	25.00			4088.59	
Recorder	1.00	6806	Below	4089.59	
Bullnose	3.00			4092.59	1000182.59 Bottom Packers & Anchor

Total Tool Length: 183.59



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FLUID SUMMARY

Koron Investments Inc.

23-12s-21w-Trego,KS

P.O. Box 981
Hays, KS 67601

Baughner A #4-29

Job Ticket: 60422

DST#: 2

ATTN: Mark Downing

Test Start: 2014.12.16 @ 23:12:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 53.00 sec/qt
Water Loss: 8.78 in³
Resistivity: ohm.m
Salinity: 3500.00 ppm
Filter Cake: 0.00 inches

Cushion Type:
Cushion Length: ft
Cushion Volume: bbl
Gas Cushion Type:
Gas Cushion Pressure: psig

Oil API: deg API
Water Salinity: 34000 ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
63.00	MW 40% mud, 60% water	0.310
126.00	MW 30% mud, 70% water	0.620
63.00	OCMW 5% oil, 30% mud, 65% water	0.310
189.00	SOCWM 2.5% oil, 27.5% water, 70% Mud	2.122
126.00	SOCWM 5% oil, 45% water, 50% mud	1.767
189.00	OCMW 10% oil, 45% water, 45% mud	2.651
189.00	SOCM 5% Oil, 95% Mud	2.651
63.00	OCM 40% Oil, 60% Mud	0.884
2.00	100% Clean oil	0.028

Total Length: 1010.00 ft Total Volume: 11.343 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: rW.22 at 40 degrees.

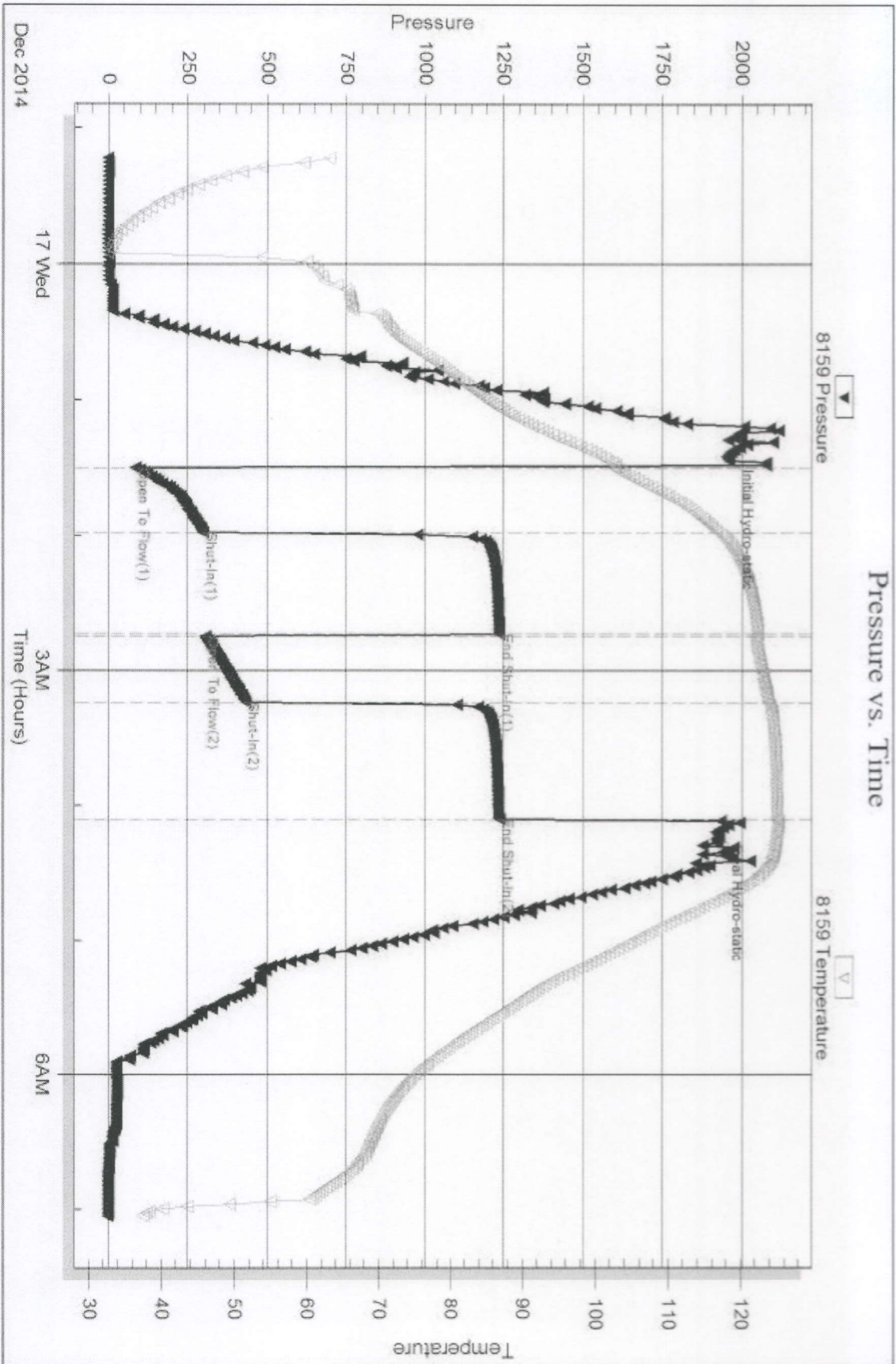
Serial #: 8159

Inside

Koron Investments Inc.

Baughner A #4-29

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 60422

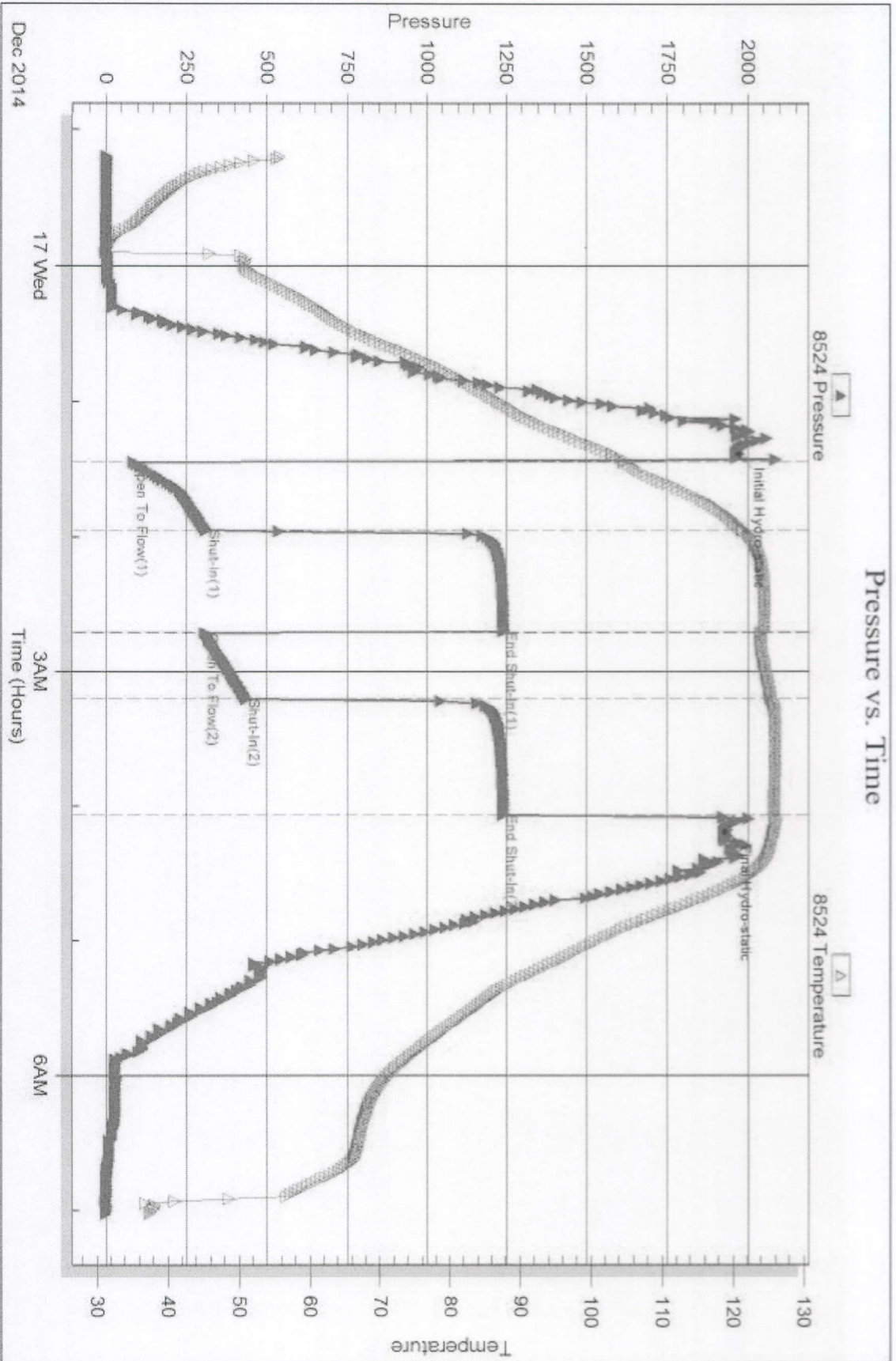
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Serial #: 8524

Outside Koron Investments Inc.

Baugher A #4-29

DST Test Number: 2



Tribble Testing, Inc

Ref. No: 60422

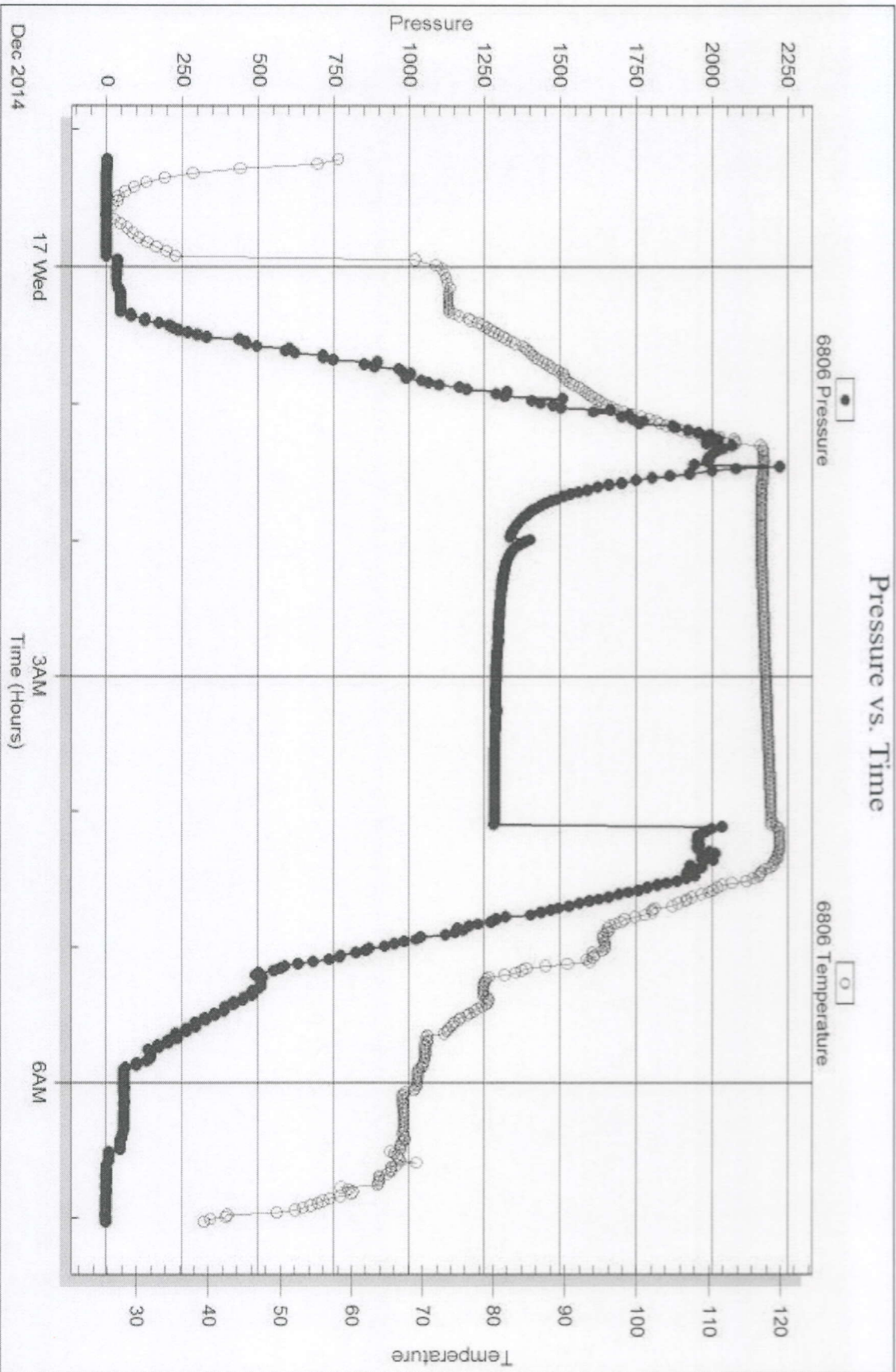
Printed: 2014.12.19 @ 10:35:06

Serial #: 6806

Below (Stratkat) Investments Inc.

Baugher A #4-29

DST Test Number 2



Tribble Testing, Inc

Ref. No: 60422

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